				Whitin	g Refinery - Oil (Collected from Liquid	Vacuum Trucks fro	om 3/24/2014	Incident			
				Engineering Judgement					Engineering Judgement Oil Volume			
Description	Discharge Location	Volume (gallons)	Low Estimate Volume % Oil	Estimate Volume % Oil	High Estimate Volume % Oil	Estimate Contact	BP Contact	Low Liquid Oil Estimate (barrels)	Estimate (barrels)	High Liquid Oil Estimate (barrels)	Still Onsite?	Notes
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2800	2.00%	3.00%	5.00%	x. 6, Ex. 7(c)		1.333	2.000	3.333	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal)
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2800	2.00%	3.00%	5.00%			1.333	2.000	3.333	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal)
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2800	2.00%	3.00%	5.00%			1.333	2.000	3.333	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal)
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2800	2.00%	3.00%	5.00%			1.333	2.000	3.333	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal)
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2800	2.00%	3.00%	5.00%			1.333	2.000	3.333	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal)
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2800	2.00%	3.00%	5.00%			1.333	2.000	3.333	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal)
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2800	2.00%	3.00%	5.00%			1.333	2.000	3.333	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal)
Kenny Manta vacuum truck from Lake Michigan area	Bar Screen	2500	2.00%	3.00%	5.00%			1.190	1.786	2.976	No	between night of 3/24 and days on 3/25; estimate of oil at 5% (industry shows 2-4% normal); updated from 2800 gallons to 2500 gallons on 4/7/2014 pe Bryan Price's transcription of his handwritten note
Veolia vacuum truck from Lake Michigan area	Cat Pad	2800	1.00%	3.00%	4.00%			0.667	2.000	2.667	No	Tony Weaver provided 1-4% estimate for the oil content
Veolia tanker truck from Lake Michigan area	Bar Screen	2000	1.00%	3.00%	4.00%			0.476	1.429	1.905	No	Tony Weaver provided 1-4% estimate for the oil content
Veolia tanker truck from Lake Michigan area	Bar Screen	2000	1.00%	3.00%	4.00%			0.476	1.429	1.905	No	Tony Weaver provided 1-4% estimate for the oil content
							Totals	12.143	20.643	32.786	Barrels	

							V	Vhiting Refine	ry: Oil from I	Boom Collect	ted from 3/24/	2014 Incider	it					
		-	Deployment	Length	Height			% Medium		Thickness Low Oil	Thickness Medium Oil	Thickness High Oil	Average Oil Thickness	Total Oil Volume (cubic	Persons Involved in	Adhered Oil	Still	
Line	Date	Description	Location	(feet)		% No Oil	% Light Oil	Oil	% High Oil	(mil)	(mil)	(mil)	(mil)	feet)	Estimate	Estimate (barrels)	Onsite?	Notes
1	3/25/2014	Orange skirt boom	horseshoe around outfall	1000	24	0%	0%	70%	30%	5	15	35	21	3.5	Ex. 6, Ex. 7(c)	0.623	Yes	In one of the rolloff boxes set up for the beach as noted on the "Solid Waste" tab line 1. This is box 48101
2	3/25/2014	Yellow skirt boom	east of outfall along shoreline	350	18	50%	50%	0%	0%	5	15	35	2.5	0.1		0.019	Yes	In one of the rolloff boxes set up for the beach as noted on the "Solid Waste" tab line 2. This is box 48072
3	3/27/2014	Orange skirt boom		1000	24	95%	5%	0%	0%	5	15	35	0.25	0.0		0.007		Pulled in from the lake on 3.27, sitting in a rolloff boset up as noted on the "Solid Waste" tab line 9. This is in box 48140
4	3/27/2014	Yellow skirt boom		500	18	50%	50%	0%	0%	5	15	35	2.5	0.2		0.028	Yes	Old boom from first night. This is from the mixed rolloff box including #6 Separator adsorbents located on the "Solid Waste" tab line 4. This is in box 48081
5	N/A	Yellow skirt boom		750	18										Totals	0.000 0.678	barrels	still deployed on lake as of 3.31 PM for horseshoe - 3000' of skirt was clean

			Whiting Refinery:	Oil and Solid Waste Vo	lume Collected from 3/	24/2014 Incident (Excl	uding Sandy Wa	ste)		
					Total Solids Volume Estimate (cubic			Still	Only from	
Line	Date	Description	Location	Oil Volume (barrels)		Estimate Contact	BP Contact	Onsite?	beach/lake	Notes
		•			•				•	Contains skirt boom recovered from
										Lake. The oil volume here is estimated
						Ex. 6, Ex. 7(c)				on the "Boom" tab line 1. Estimate
										80% full on a 19.5 yard dumpster. This
1	3/25/2014	Rolloff box	North of #6 Separator	N/A	15.6			Yes	Yes	is dumpster 48101
										Contains skirt boom recovered from
										Lake. The oil volume here is estimated
										on the "Boom" tab line 2. Estimate
										66% full on a 19.5 yard dumpster. This
2	3/25/2014	Rolloff box	North of #6 Separator	N/A	12.9			Yes	Yes	is dumpster 48072
										1
										This contains both adsorbent sausages
										This contains both adsorbent sausages as well as sand/oil mix. The box
										geometery is approximately 18' long by
			1							7' wide by 4' high. The rolloff box is
										19.5 cubic yard capacity.
			1							Approximately 40% of this material is
1										sand and oil globule mix that is
										captured in bags. There is 15% of the
			1							volume occupied by adsorbent
										sausages. The sand/oil globule mix is
										estimated in the "Sandy Waste" tab
										line 5, the adsorbent boom is
										estimated on this line at 1% oil
										loading. Estimate 15% of a 19.5 yard
3	3/25/2014	Rolloff box	North of #6 Separator	0.141	2.9			Yes	Yes	dumpster. This is in box 48126
										This rolloff box contains misclassified #6
								1 1		Separator solids. Proper reclassification
			This was moved to the		,					of these solids resulted in moving from
1			containment area on							6.43 cubic yards for Lakefront material
4	3/25/2014	Rolloff box	3.27.	N/A	N/A			Yes	No	to 0 cubic yards of material.
_	2/25/2044	B	In tent area by beach		N. 4 .			,		Being wiped down and rags being put
5	3/25/2014	Boots - approximately 35 pair	entrance	N/A	N/A			Yes	Yes	into 2 drums - photos taken
6	2/25/2014	Chougle/Dales	In tent area by beach	NI/A	N1/A			\ \v \	V	Being wiped down and rags being put
-	3/25/2014	Shovels/Rakes	entrance	N/A	N/A			Yes	Yes	into 2 drums - photos taken
										Contains miscellaneous rags and oil
										contains miscellaneous rags and oil
			In tent area by beach							wipedown of shoes/shovels/rakes.
7	3/25/2014	55 gallon opened drum	entrance	0.013	0.2			Yes	Yes	Estimate 1% oil on solids, and 90% full
	3/23/2014	55 Banon opened drum	Lentrance	0.013	0.2			1 162	162	Latinate 1/0 on on sonus, and 30/0 full

		8								
		II	Whiting Refinery:	Oil and Solid Waste Vol	ume Collected from 3/	24/2014 Incident (Excl	uding Sandy Wa	ste)		*
					Total Solids Volume			CA:II	Only from	
Lina	Data	Decembrica	Landian	Oil Valuma (harrala)	Estimate (cubic	Fatimeta Contact	DD Combook	Still	Only from	Netes
Line	Date	Description	Location	Oil Volume (barrels)	Yards)	Estimate Contact	BP Contact	Onsite?	beach/lake	Notes
										Contains miscellaneous rags and oil
										contaminated solids, including
			In tent area by beach			Ex. 6, Ex. 7(c)				wipedown of shoes/shovels/rakes.
8	3/25/2014	55 gallon opened drum	entrance	0.013	0.2			Yes	Yes	Estimate 1% oil on solids, and 90% full
0	3/23/2014	33 gailon opened drum	entrance	0.013	0.2			163	163	Listimate 176 on on sonus, and 5076 fun
										Contains 1000' orange skirt boom
										recovered from Lake on 3/27. The oil
										volume here is estimated on the
										"Boom" tab line 3, and the total
										volume is estimated at 80% of a 19.5
9	3/27/2014	Rolloff box	North of #6 Separator	N/A	15.6			Yes	Yes	yard dumpster. This is in box 48140
										Contains 500' yellow skirt boom
										recovered from Lake (this was old
										boom as verified by Dan Jorgenson on
	_									4/2). The oil volume here is estimated
										on the "Boom" tab line 4, and the total
										volume is estimated at 60% of a 19.5
10	3/31/2014	Rolloff box	North of #6 Separator	N/A	11.7			Yes	Yes	yard dumpster. This is in box 48081.
										This is for miscellaneous shredded
										boom as well as sandy soil/rocks
										collected as part of the beach walks.
										The material is accounted for on the
										"Sandy Waste" tab with all the bags.
11	3/31/2014	Rolloff box	North of #6 Separator	N/A	N/A	, ————————————————————————————————————		Yes	Yes	This is box 48086
										This is being filled with beach debris,
										mainly bags. It is dumpster 48073. This
4.5	2/24/2044	D - II - 66 l	Now the CHC C	N.74	N./*			.,		material is being accounted for in the
12	3/31/2014	Rolloff box	North of #6 Separator	N/A	N/A			Yes	Yes	"Sandy Waste" tab

			(assumes no packing - interstitial space
Total Volume of Solids and Boom	59	cubic yards	is counted as waste)

		1.5% by		
	1% by Volume Oil	Volume Oil	2% by Volume Oil	
Total Oil Volume Estimate	0.167	0.250	0.334	barrels